

Daniel Chou

FULL-STACK SOFTWARE ENGINEER

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TECHNICAL SKILLS

Languages – JavaScript (ES5, ES6), Python, SQL, HTML, CSS, TypeScript

Frameworks/Tools – Node, Express, React, Flask, Jinja, Bootstrap, PostgreSQL, SQLAlchemy, MongoDB, Git, GitHub, Django, jQuery

Testing – Jest, React Testing Library, Coverage.py, Jasmine, unittest, PyTest

SOFTWARE ENGINEERING EXPERIENCE

Rithm SIS | Full Stack Software Engineer Intern

Sept 2023 – Oct 2023

- Built new features, conducted research, and debugged the Student Information System, a live-production Django codebase with over > 80,000 lines of code.
- Wrote unit and integration tests with factories while maintaining >95% test coverage throughout the development phase.
- Designed and built a blogging feature for students and staff to create and post blogs on the SIS website.
- Collaborated using agile methodologies to deliver new features successfully, participating in daily stand-ups, story-pointing tickets and completing week-long sprints.
- Presented technical topics and walkthroughs, including the MVC (Model-View-Controller) pattern, to staff and classmates.

TECHNICAL PROJECTS

Warbler | Flask, PostgreSQL, SQLAlchemy | [GitHub](#) | [Demo](#)

- Replicated social media app with user authentication and authorization functionalities, implementing secure session management and B-crypt password hashing in the Flask backend.
- Utilized the SQLAlchemy ORM to leverage object-oriented programming methods, enabling users to post/like messages, follow other users, and view a feed of messages from their followers.

Jobly | Express.js, React, PostgreSQL | [GitHub](#)

- Designed single-page job application site with authentication and authorization features implemented using JWT in the Express backend and secured routes in the React frontend.
- Built RESTful API in Node/Express that enables users to create listings for companies and jobs, with administrative privileges for admins.

ADDITIONAL WORK EXPERIENCE

Lamont Financial Services Corporation

2021 – 2023

Associate, Municipal Fixed-Income

- Conducted quantitative analysis, debt modeling, and credit research to assist issuer clients in making capital structure recommendations, providing market guidance, and offering bond pricing advice.
- Collaborated with senior advisors to create presentation materials by compiling and interpreting historical financial data and economic projections to communicate key findings and tailored proposals.

New York State Homes and Community Renewal

2019 – 2021

Debt Issuance Analyst

- Managed various phases of the debt financing process for the agency's \$2.1 billion annual multi-family and single-family housing bond programs, including preparing official statements, conducting project cash flow analysis, obtaining credit ratings, and reviewing closing documents to ensure timely completion.

EDUCATION

Rithm School – Full-Stack Engineering Program

2023

- 17-week program based in San Francisco with a focus on JavaScript, Python, Flask/Express/React frameworks and relational database management.

Baruch College, New York, NY – B.B.A. in Finance

2016